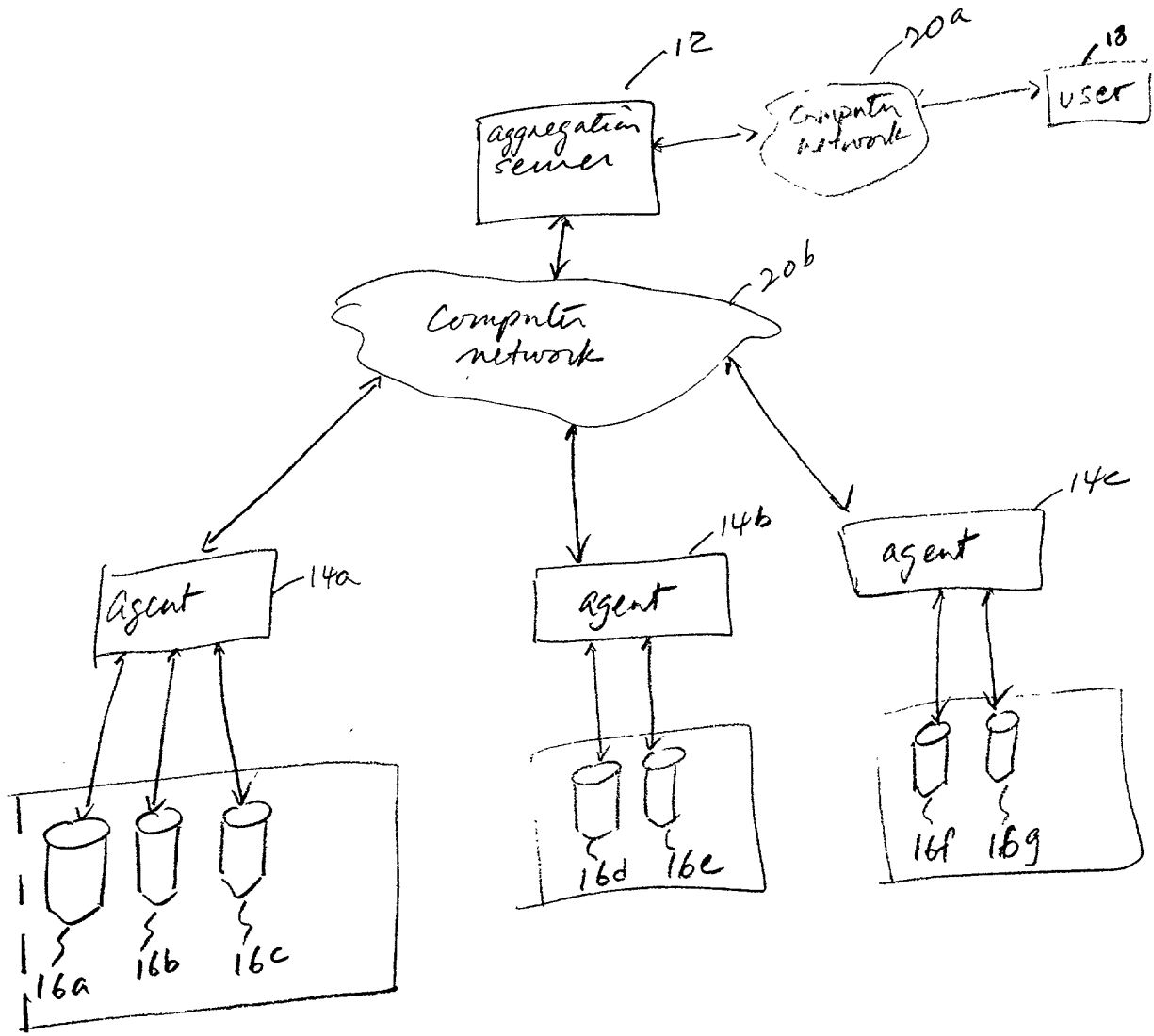


Fig. 1

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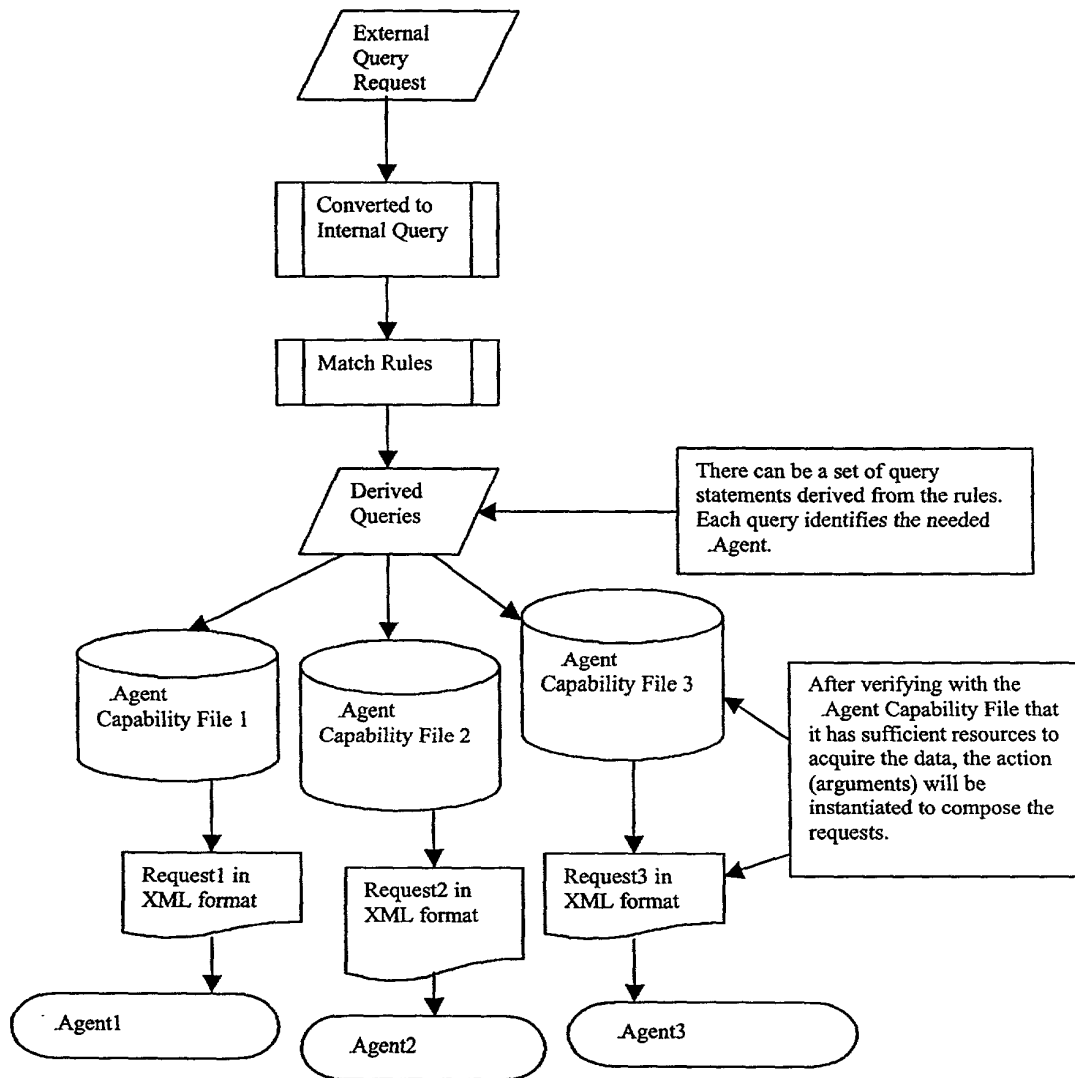


Fig.2

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```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<tquery>
  <session> 1234 </session>
  <begin> 0 </begin>
  <howmany> 10 </howmany>
  <query>
    <schema> FGByChannel </schema>
    <arg0> ROH </arg0>
  </query>
</tquery>
```

Fig. 3

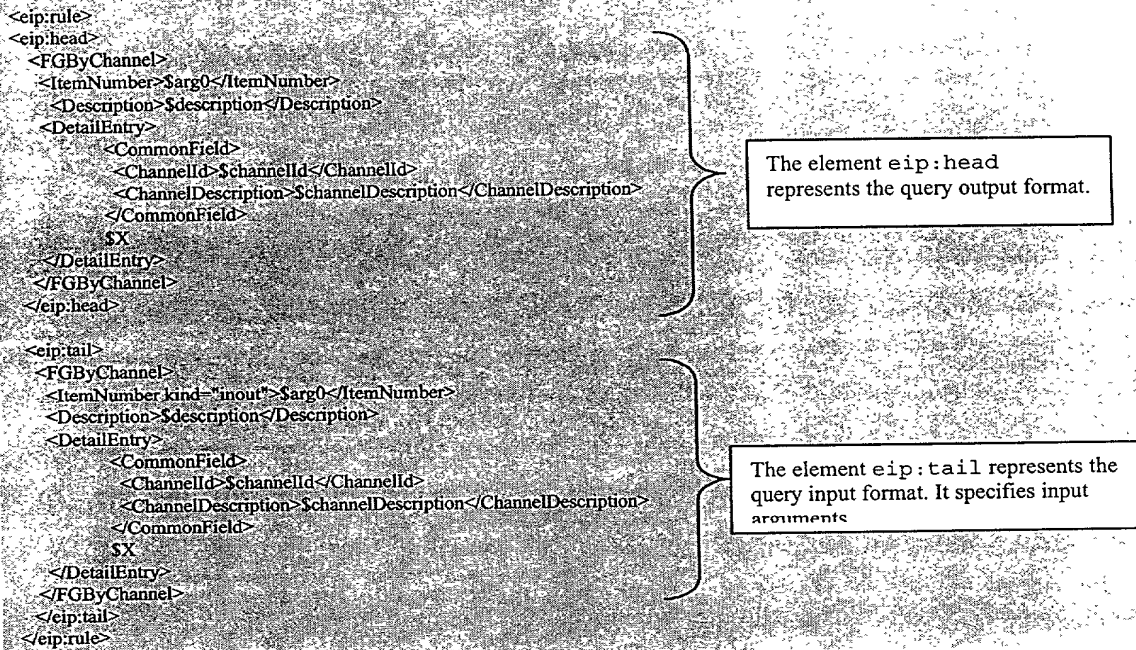


Fig 4

```

<eip:rule>
  <eip:head>
    <FinishedGood>$V</FinishedGood>
  </eip:head>
  <eip:tail>
    <FinishedGood source="isite">$V</FinishedGood>
  </eip:tail>
</eip:rule>

```

The rule returns all the data from 'isite' Agent.

```

<eip:rule>
  <eip:head>
    <FGBByChannel>
      <ItemNumber>$arg0</ItemNumber>
      <Description>$description</Description>
      <DetailEntry>
        <CommonField>
          <ChannelId>$channelId</ChannelId>
          <ChannelDescription>$channelDescription</ChannelDescription>
        </CommonField>
        <InvQuantity>$invQuantity</InvQuantity>
      </DetailEntry>
    </FGBByChannel>
  </eip:head>
  <eip:tail>
    <eip:block type="and">
      <Channel1 source="Channel1">
        <ItemNumber kind="inout">$arg0</ItemNumber>
        <ChannelId>$channelId</ChannelId>
        <InvQuantity>$invQuantity</InvQuantity>
      </Channel1>
      <ChannelInfo source="Isite">
        <ItemNumber kind="inout">$arg0</ItemNumber>
        <Description>$description</Description>
        <ChannelId>$channelId</ChannelId>
        <ChannelDescription>$channelDescription</ChannelDescription>
      </ChannelInfo>
    </eip:block>
  </eip:tail>
</eip:rule>

```

The part eip:head of the rule is a superset of the part eip:tail in the above query rule. Therefore, this is a matched rule.

Two-way-join

Indicates the following data d1 will be instantiated from the data source Channel.

Indicates the following data d2 will be instantiated from the data source Isite.

Fig. 5

<eip:rule-set type="source" id="isite">

<eip:rule>

<eip:head>\$Y</eip:head>

<eip:tail>

<eip:block type="bind-to"> \$Y

<ChannelInfo>

<ItemNumber kind="inout">\$arg0</ItemNumber>

<Description>\$description</Description>

<ChannelId>\$channelId</ChannelId>

<ChannelDescription>\$channelDescription</ChannelDescription>

</ChannelInfo>

</eip:block>

</eip:tail>

<eip:action>

<eip:schema>ChannelInfo</eip:schema>

<eip:arg>\$arg0</eip:arg>

</eip:action>

</eip:rule>

Define the name of the source. Agent

It binds the value of the whole block to \$Y.

The action tag defines the query binding variables of which the values can be inquired from a web query form or the output of the other queries. It can have <eip:arg type="option">\$arg1</eip:arg> used to add an optional argument.

ChannelInfo is the name of the schema. The schema name is referred in the Agent query mapping file.

Fig. 6

root="ChannelInfo"

```
<elementType id="ChannelInfo">
  <mapsTo type="c:ChannelInfo" />
  <read>
    <database name="demo" username="test" usrpsswd="test" driver="ODBC" drivertype="2" />
    <query>select MATERIAL_ID,MATERIAL_INFO,CHANNEL_ID,CHANNEL_INFO from
      master.channel_info where MATERIAL_ID = '$0'
    </query>
  </read>
  <attribute type="#MATERIAL_ID">
    <mapsTo type="c:ItemNumber">
    </mapsTo>
    <implies type="c:ChannelInfo" id="ChannelInfoRoot"/>
  </attribute>
  <attribute type="#MATERIAL_INFO">
    <mapsTo type="c:Description">
    </mapsTo>
    <implies type="#ChannelInfoRoot"/>
  </attribute>
  <attribute type="#CHANNEL_ID">
    <mapsTo type="c:ChannelId">
    </mapsTo>
    <implies type="#ChannelInfoRoot"/>
  </attribute>
  <attribute type="#CHANNEL_INFO">
    <mapsTo type="c:ChannelDescription">
    </mapsTo>
    <implies type="#ChannelInfoRoot"/>
  </attribute>
</elementType>
```

Database Connection String

Query Definition

The "#MATERIAL\_ID" is a column identifier preceded by a "#". It is mapped to the following name.

c:ItemNumber is an internal conceptual name defined in the Agent capability file.

<implies type> tag indicates an XML tree data structure and the value is the name of the parent node. #ChannelInfoRoot is previously defined and allocated. It can then be referred as #ChannelInfoRoot.

Fig. 7a

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```
<elementType id="GetDemandForMaterial">
  <mapsTo type="c:MaterialDemand"/>
  <read>
    <sap client="100" usname="user1" usrpswd="123" language="EN" hostname="112.3.4" systemno="00" />
    <query>
      <rfcModuleName>ZRFC_GETDEMAND</rfcModuleName>
      <importParams>
        <P_MATNR>$0</P_MATNR>
        <P_WERKS>$1</P_WERKS>
      </importParams>
      <tableParams>ITABDEM</tableParams>
    </query>
  </read>
  <attribute type="#DAT00">
    <string/>
    <mapsTo type="c:RequirementsDate">
      <implies type="c:MaterialDemand" id="MDRoot"/>
      <implies type="c:Demand"/>
    </mapsTo>
    </attribute>
    <attribute type="#CERDM">
      <string/>
      <mapsTo type="c:CertainDemand">
        <implies type="#MDRoot"/>
      </mapsTo>
    </attribute>
    <attribute type="#FORDM">
      <string/>
      <mapsTo type="c:ForecastDemand">
        <implies type="#MDRoot"/>
      </mapsTo>
    </attribute>
  </elementType>
```

SAP Connection String

Query definition (the parameters passed into Sap Java Connector)

The data field returned from SAP. It is mapped to the following name.

Fig. 7b